OTHER THAN PENSION POST-RETIREMENT EMPLOYEE BENEFITS (OPEB) ANALYSIS AS OF JUNE 30, 2010

AUGUST 6, 2010

August 6, 2010

Mr. David C. Wilkinson Comptroller City of Newton Commonwealth Avenue and Walnut St. Newton Centre, MA 02159

Dear David:

Enclosed please find our report regarding the indicated other than pension post-retirement benefit (OPEB) liabilities as of June 30, 2010 for the City. The liability calculation is in accordance with Governmental Accounting Standards Board Statement 45 (GASB-45).

It has been a pleasure being of service to you again on this project. If after reviewing this report you have any questions please do not hesitate to call.

Sincerely,

Robert Van Epps, FCAS, MAAA

folat W. Van Eggs

Principal

John D. Stiefel, FSA, MAAA Associated Consultant

TABLE OF CONTENTS

<u>Pa</u>	ge
INTRODUCTION	2
CONDITIONS AND LIMITATIONS	3
DISTRIBUTION AND USE	5
REQUIRED DISCLOSURES	6
ANALYSIS1	1
SCHEDULES OF EMPLOYER CONTRIBUTIONS1	5
EXHIBITS	

INTRODUCTION

Financial Risk Analysts, LLC has been retained by the City of Newton (the City) to provide an actuarial valuation of the City's retiree medical and life insurance post-retirement benefits program for the fiscal year ending June 30, 2010. The City initially complied with GASB-45 for the fiscal year running July 1, 2007 to June 30, 2008.

Medical and life insurance are the two most common types of other (than pension) postretirement employee benefits (OPEB) provided by an employer to retirees and their beneficiaries.

The City presently provides life and health insurance benefits for active and retired employees and their covered dependents. The City has reported to us 2,591 active employees, 475 pre-Medicare retirees, 1,939 Medicare retirees and 152 over age 65 non-Medicare retirees who have elected health insurance.

Health insurance benefits provided to active employees and the Tufts Medicare Complement Plan for Medicare retirees are self insured while other health insurance benefits provided to Medicare retirees are fully insured. Life insurance benefits provided by the City are fully insured. For health insurance, active employees and retirees not on Medicare have a choice among the Harvard, Tufts-EPO and Tufts-POS plans. Most retirees on Medicare are in the Tufts Medicare Complement Plan. For life insurance, the only option is a flat \$5,000 benefit which does not reduce at retirement. As required by Massachusetts law, retirees not on Medicare have the same benefit options as active employees.

A detailed description of the City's census, benefit, and premium information is presented on Exhibits 7, 8, and 9.

CONDITIONS AND LIMITATIONS

DATA

Within this report we used data and other information provided to us by the City. This data consisted of the following:

- Census Information the demographics of the active, pre-Medicare retiree and Medicare retiree population covered for medical and life insurance benefits as of the date of the most recent pension valuation. For active employees, date of hire was also included.
- Benefit Information a description of the different health and life insurance plans available to participants.
- Funding Information a description of how the life and health insurance plans are funded including the contributions required from employees and retirees.
- Premium Rates the premium rates for the various plans and the percentage of each premium rate that the City pays.
- Life Insurance In-Force Information a summary of the life insurance schedules for actives and retirees and the participant contributions required.
- Requirements for Retirement the age/service requirements for retirement with an unreduced pension benefit and the amount of benefit reduction for early retirement.
- Probabilities of Retirement the probability that a general or uniformed employee eligible to retire will actually retire.
- Retirement Election Rates The percentage of active participants who opt to continue their life and health insurance benefits (and pay the associated premiums) at retirement.

Although the data supplied were reviewed for purposes of reasonability, we have not independently audited or verified this information and we assume it to be accurate and complete. The results of our analysis will be contingent upon the reliability of the information supplied to us and such reliability is the responsibility of the City. Should the City become aware of any significant discrepancies in the data reported to us, we should be notified of such discrepancies and this report will be amended, if necessary.

UNCERTAINTY

Actuarial projections, by their nature, are estimates of future contingent events, which cannot be known with certainty. The City's ultimate liability for medical and life insurance benefits will be subject to events that have yet to occur such as the future employee attrition rate, retirements, and particularly interest rates and medical cost inflation.

While we believe the results presented in this report are reasonable and reflect the use of accepted actuarial principles and standards of practice, it is possible that the actual future OPEB liability of the City will differ, perhaps materially, from what we have projected herein. Nothing in this report should be construed as a warranty or guarantee as to the adequacy of the liability estimates contained herein.

DISTRIBUTION AND USE

This report is provided solely for the use of the City of Newton in evaluating its OPEB liability for the fiscal year July 1, 2009 through June 30, 2010. A copy of this report may also be provided to the City's auditor with the proviso that the report is copied in its entirety and that each party receiving a copy of this report agrees to not distribute the report to any other third party.

We request that the City inform us of distribution of this report to parties other than those referenced above.

REQUIRED DISCLOSURES

Required Information for the Fiscal Year July 1, 2009 through June 30, 2010

As displayed on Exhibits 1.1 and 1.2, the tables below present a summary of the results of our analysis. To derive values reflecting partial funding, linear interpolation between the full funding (7.75% discount rate) and pay-as-you-go funding (2.00% discount rate) values may be used. The 2.00% discount rate was selected by the City for purposes of discounting an unfunded liability. The 2.00% rate is a meant to approximate a risk free rate of return based on current risk-free marketplace yields.

We present the 2008 and 2009 results along side of the 2010 results as required by GASB-45. Separate tables are provided for results using an unfunded discount rate (3.75% in 2008 and 2.00% in 2009 and this year) and a fully funded discount rate (7.75%).

	City of Newton GASB-45 Required Disclosures						
	Unfunded Discount Rate						
	2008 2009 2010 3.75% 2.00% 2.00%						
A.	Expected Post Retirement Benefit Obligation	\$625,700,000	\$956,315,374	\$895,271,377			
В.	Funded Status						
	1. Actuarial Accrued Liability (AAL)						
	Active Employees	\$152,890,000	\$247,015,973	\$232,188,128			
	Retirees	\$280,070,000	\$348,656,080	\$299,486,423			
	Total	\$432,960,000	\$595,672,053	\$531,674,551			
	2. Actuarial Value of Assets	\$0	\$0	\$0			
	3. Unfunded Actuarial Accrued Liability (1) - (2)	\$432,960,000	\$595,672,053	\$531,674,551			
	4. Funded Ratio (2)/(3)	0%	0%	0%			
	5. Annual Covered Payroll (to be Filled in by the City)	not available	not available	not available			
	6. Ratio of Unfunded AAL to Covered Payroll (3)/(5)	(3)/(5)	(3)/(5)	(3)/(5)			
C.	Annual Required Contribution (ARC)						
	1. Normal Cost (Service Cost)	\$12,050,000	\$20,839,131	\$20,351,759			
	2. Amortization of Unfunded Accrued Liability	\$23,390,000	\$26,734,203	\$24,493,346			
	3. Annual Required Contribution (ARC) $(1) + (2)$	\$35,440,000	\$47,573,333	\$44,845,104			
D.	Annual OPEB Cost						
	1. ARC	\$35,440,000	\$47,573,333	\$44,845,104			
	2. Interest on Net OPEB Obligation	\$0	\$461,355	\$1,120,340			
	3. Adjustment to ARC	\$0	\$1,035,297	\$2,580,607			
	4. Annual OPEB Cost (1) + (2) - (3)	\$35,440,000	\$46,999,391	\$43,384,837			
E.	Net OPEB Obligation						
	1. Net OPEB Obligation - beginning of year	\$0	\$23,067,740	\$56,016,982			
	2. Annual OPEB Cost	\$35,440,000	\$46,999,391	\$43,384,837			
	3. Expected Contributions during the year	\$12,372,260	\$14,050,149	\$12,968,992			
	4. Net OPEB Obligation - end of year estimate (1)+(2)-(3)	\$23,067,740	\$56,016,982	\$86,432,826			

	City of Newton GASB-45 Required Disclosures						
	Funded Discount Rate						
	2008 2009 2010 7.75% 7.75% 7.75%						
A.	Expected Post Retirement Benefit Obligation	\$319,360,000	\$330,045,424	\$288,991,375			
В.	Funded Status						
	1. Actuarial Accrued Liability (AAL)						
	Active Employees	\$152,890,000	\$71,600,658	\$61,644,327			
	Retirees	\$280,070,000	\$195,963,217	\$171,336,316			
	Total	\$432,960,000	\$267,563,876	\$232,980,643			
	2. Actuarial Value of Assets	\$0	\$0	\$0			
	3. Unfunded Actuarial Accrued Liability (1) - (2)	\$432,960,000	\$267,563,876	\$232,980,643			
	4. Funded Ratio (2)/(3)	0%	0%	0%			
	5. Annual Covered Payroll (to be Filled in by the City)	not available	not available	not available			
	6. Ratio of Unfunded AAL to Covered Payroll (3)/(5)	(3)/(5)	(3)/(5)	(3)/(5)			
C.	Annual Required Contribution (ARC)						
	1. Normal Cost (Service Cost)	\$4,030,000	\$4,852,219	\$4,311,040			
	2. Amortization of Unfunded Accrued Liability	\$20,460,000	\$21,740,270	\$19,122,466			
	3. Annual Required Contribution (ARC) (1) + (2)	\$24,490,000	\$26,592,488	\$23,433,506			
D.	Annual OPEB Cost						
	1. ARC	\$24,490,000	\$26,592,488	\$23,433,506			
	2. Interest on Net OPEB Obligation	\$0	\$939,125	\$1,907,632			
	3. Adjustment to ARC	\$0	\$984,598	\$2,020,305			
	4. Annual OPEB Cost (1) + (2) - (3)	\$24,490,000	\$26,547,015	\$23,320,833			
E.	Net OPEB Obligation						
	1. Net OPEB Obligation - beginning of year	\$0	\$12,117,740	\$24,614,606			
	2. Annual OPEB Cost	\$24,490,000	\$26,547,015	\$23,320,833			
	3. Expected Contributions during the year	\$12,372,260	\$14,050,149	\$12,968,992			
	4. Net OPEB Obligation - end of year estimate (1)+(2)-(3)	\$12,117,740	\$24,614,606	\$34,966,447			

The following is an explanation of the above:

Expected Post-Retirement Benefit Obligation (EPBO) – This is the present value of the future post-retirement life and health insurance benefits for all currently retired employees and active employees eligible for those benefits. For active employees, the EPBO includes the full present value of benefits even though some employees have not yet fully earned or vested in those benefits. The government needs to be aware of this liability but does not need to disclose or recognize it on any of its financial statements.

Actuarial Accrued Liability (AAL) – This is also known as the Accumulated Post-Retirement Benefit Obligation (APBO) or the Transition Obligation. This is that portion of the EPBO that has been accrued to date. For existing retirees and active employees who have fully earned their benefit, the AAL equals the EPBO. Upon implementation of GASB-45, the APBO is the transition obligation (current liability) that must be recognized on the Government's balance sheet if the Government chooses immediate recognition. Alternatively, the Government can choose to amortize the current APBO. GASB-45 permits amortization over a period of from 10 to 30 years.

Plan Assets – The amount of assets held in trust to fund the plan (if the plan is being funded).

Unfunded Actuarial Accrued Liability – The excess of the AAL over the plan assets.

Normal Cost – Also known as the Service Cost. This is the portion of the EPBO for active employees attributable to employee service during the year.

Amortization of Unfunded Accrued Liability – This is the annual amortization of the AAL (Transition Obligation) if the Government chooses to amortize the AAL. If the government chooses to amortize the AAL, the amortization cost should be booked as a current year expense. We used an initial 30 year period for purposes of amortizing the AAL. This is the maximum period of time allowed under GASB. GASB allows amortization on an open, closed or level %

of payroll basis. We selected the closed basis; i.e. the amortization period declines 1 year every year. Therefore the period is 28 years for the fiscal year ending June 30, 2010.

Annual Required Contribution (**ARC**) – This is the total amount that should be booked as a current year expense. During the initial year of implementation of GASB-45, ARC is equal to the sum of the Normal Cost (Service Cost) and Amortization of Actuarial Accrued Liability (Transition Obligation). GASB-45 recommends, but does not require, that the ARC actually be contributed (funded) each year.

Net OPEB Obligation – Beginning of Year – This is last year's Net OPEB Obligation – End of Year Estimate.

Interest of Net OPEB Obligation – This is interest, at the assumed interest rate, on the Net OPEB Obligation – Beginning of Year.

Adjustment to ARC – This is the Net OPEB Obligation – Beginning of Year divided by the amortization factor.

Annual OPEB Cost – This is the ARC + Interest on Net OPEB Obligation - Adjustment to ARC **Expected Contributions During the Year** – This is the amount of OPEB payments the Government made for retiree OPEB during the just-completed fiscal year.

Net OPEB Obligation – End of Year Estimate – This is the Net OPEB Obligation – Beginning of Year + Annual OPEB Cost - the Expected Contributions during the Year.

ANALYSIS

Assumptions

- 1. **Interest discount rate** 2.00% per year, net of expenses, for an unfunded plan. 7.75% per year, net of expenses, if funded. GASB-45 requires that the selection of an interest discount rate be based on the expected long term rate of return on the (General Fund) assets expected to be available to pay the benefits when due. We note that a level 1% increase in assumed interest rate will decrease the City's liability by about 20%.
- 2. **Trend-** Medical Costs are assumed to increase each year according to the following schedule:

Year	Medical Trend
2009	2.59%
2010	3.74%
2011	4.90%
2012	6.05%
2013	7.2%
2014	7.2%
2015	7.1%
2016	7.1%
2020	6.9%
2025	6.8%
2030	6.7%
2040	6.2%
2050	5.9%
2060	5.8%
2070	5.7%
2080+	5.2%

The above trend rates were developed using the baseline projection of the SOA Long-Run Medical Cost Trend Model. The short-term (first 4 years) trend rates were based on the fact that the City's recent rate increase averaged 2.59%. The long-term (after 4 years) trend rates were based on the following assumptions:

Rate of Inflation 3.2%
Rate of Growth in Real Income / GDP per capita 1.9%
Income Multiplier for Health Spending 1.4
Extra Trend due to Technology and other factors 1.2%
Health Share of GDP Resistance Point 25.0%
Year for Limiting Cost Growth to GDP Growth 2075

The Society of Actuaries' (SOA's) Long-Run Medical Cost Trend Model and its baseline projection are based on an econometric analysis of historical US medical expenditures and the judgments of experts in the field. The long-run baseline projection and input variables have been developed under the guidance of an SOA Project Oversight Group. The above schedule represents a reasonable medical trend projection for the current plan provisions and demographics of the City's Retiree Welfare Benefits Plan, and no changes to these baseline assumptions are necessary.

- 3. **Amortization Period**-Thirty years (initial), 28 years (remaining). 30 years is the maximum period permitted by GASB-45. GASB-45 permits amortization payments to increase at a rate not to exceed projected salary growth. We assumed level amortization payments, which we think are more realistic for budgeting purposes.
- 4. **Retirement Eligibility**-As prescribed by the terms of the City's Retirement System.
- 5. **Marital Status**-Active participants are assumed to keep their current marital status upon retirement.
- 6. **Turnover**-Representative values of assumed annual turnover rates for general and uniformed employees are as follows.

	General	Uniformed
Age Group	Employees	Employees
<20	15.00%	1.50%
20-24	13.13%	1.50%
25-29	10.12%	1.50%
30-34	8.33%	1.46%
35-39	6.78%	1.22%
40-44	5.96%	0.28%
45-49	5.13%	0.03%
50-54	3.23%	0.03%
55-59	2.45%	0.00%
60-64	2.07%	0.00%
65-69	1.94%	0.00%
70-74	1.22%	0.00%
75+	0.00%	0.00%

7. **Mortality**-Mortality assumptions are used to project the expected number of employees who will be receiving future benefits. We used mortality rates based on the Society of Actuaries Group Life 1985-1989 mortality table.

- 8. **Disability-**Disability assumptions are used to project the number of people who will retire early due to disability. The possibility of disability was accounted for by assuming average retirement ages that were 1 year younger than were observed by the City (see (10) below)
- 9. **Requirements for Retirement**-The City has informed us it requires attainment of age 65 for general employees to retire with an unreduced pension benefit. For uniformed employees this age is 55. Early retirement is available with twenty years of service with a reduced benefit. Retirement is mandatory at age 70 for general employees and age 65 for uniformed employees.
- 10. **Age at Retirement**-Representative assumed average retirement ages are shown below. These values are consistent with the requirements for retirement stated above, the input provided by the City and the adjustment for disability retirements (see (8) above).

	General	Uniformed
<u>Age</u>	Employees	Employees
45	63	58
50	63	59
55	64	61
60	66	64
62	67	65
65	69	65
69	72	69
70	72	70

11. **Retirement Election Rates-**The City provided us data for each group showing total retirees and how many retirees have elected to continue post-retirement benefits and pay the associated premiums. That data showed that retirement election rates have been as follows.

An Employees	All E	Emp!	loyees
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Health Insurance	100%
Life Insurance	40%

- 12. **Plan Changes**-The City has informed us there are no significant changes in eligibility, plan provisions or required contributions for health or life insurance benefits that have been announced to employees for future plan years. We assumed the current benefits will remain in effect for all future years.
- 13. **Expenses** We did not make an explicit assumption for expenses because our assumed interest discount rates are net of expenses.

Methodology

We used the Projected Unit Credit actuarial cost method to perform our estimate of the OPEB liability. The following is a summary of the steps employed in our analysis.

- 1. Determine current annual subsidy for life and health insurance for the pre-Medicare retirees, Medicare retirees and retirees over age 65 not on Medicare. We used the most recently available census data, current premiums, participant contribution requirements and age-sex adjustment factors to make these calculations.
- **2.** Calculate the EPBO. This is the present value of future subsidies for life and health insurance for the actives, pre-Medicare retirees, retirees over 65 not on Medicare and Medicare retirees. Separate calculations were required for active general and active uniformed employees.
- 3. Calculate the AAL from the EPBO and the active employee age and service information from the census.
- 4. Calculate the other GASB-45 required disclosures.

SCHEDULES OF EMPLOYER CONTRIBUTIONS

The schedules below are based on the normal cost and amortization of the unfunded actuarial accrued liability calculated for the fiscal year ending June 30, 2010, future normal costs increasing at 5.0% per year and future amortization payments increasing at the assumed future healthcare trend rates.

Schedule of Employer Contributions 2.00% Discount Rate					
Fiscal Year	Normal	Amortization	Total City		
Ending in	Cost	Payment	ARC		
2010	\$20,351,759	\$24,493,346	\$44,845,104		
2011	\$21,369,347	\$25,127,723	\$46,497,070		
2012	\$22,437,814	\$26,067,500	\$48,505,314		
2013	\$23,559,705	\$27,344,808	\$50,904,512		
2014	\$24,737,690	\$28,999,169	\$53,736,859		
2015	\$25,974,575	\$31,087,109	\$57,061,683		
2016	\$27,273,303	\$33,325,380	\$60,598,684		
2017	\$28,636,968	\$35,691,482	\$64,328,451		
2018	\$30,068,817	\$38,225,578	\$68,294,395		
2019	\$31,572,258	\$40,924,304	\$72,496,561		
2020	\$33,150,871	\$43,797,190	\$76,948,060		
2021	\$34,808,414	\$46,854,233	\$81,662,648		
2022	\$36,548,835	\$50,105,917	\$86,654,752		
2023	\$38,376,277	\$53,563,226	\$91,939,502		
2024	\$40,295,090	\$57,248,375	\$97,543,466		
2025	\$42,309,845	\$61,175,614	\$103,485,459		
2026	\$44,425,337	\$65,360,026	\$109,785,363		
2027	\$46,646,604	\$69,817,580	\$116,464,184		
2028	\$48,978,934	\$74,565,175	\$123,544,109		
2029	\$51,427,881	\$79,620,694	\$131,048,575		
2030	\$53,999,275	\$85,003,053	\$139,002,328		
2031	\$56,699,239	\$90,732,259	\$147,431,498		
2032	\$59,534,201	\$96,829,467	\$156,363,667		
2033	\$62,510,911	\$103,317,041	\$165,827,952		
2034	\$65,636,456	\$110,187,624	\$175,824,080		
2035	\$68,918,279	\$117,460,007	\$186,378,286		
2036	\$72,364,193	\$125,153,638	\$197,517,831		
2037	\$75,982,403	\$133,288,624	\$209,271,027		
2038	\$79,781,523	\$141,885,740	\$221,667,263		
2039	\$83,770,599	\$150,966,428	\$234,737,027		
2040	\$87,959,129	\$160,552,796	\$248,511,925		

Schedule of Employer Contributions 7.75% Discount Rate							
Fiscal Year	Fiscal Year Normal Amortization Total City						
Ending in	Cost	Payment	ARC				
2010	\$4,311,040	\$19,122,466	\$23,433,506				
2011	\$4,526,592	\$19,617,738	\$24,144,330				
2012	\$4,752,922	\$20,351,441	\$25,104,363				
2013	\$4,990,568	\$21,348,662	\$26,339,230				
2014	\$5,240,097	\$22,640,256	\$27,880,353				
2015	\$5,502,101	\$24,270,354	\$29,772,456				
2016	\$5,777,206	\$26,017,820	\$31,795,026				
2017	\$6,066,067	\$27,865,085	\$33,931,152				
2018	\$6,369,370	\$29,843,506	\$36,212,876				
2019	\$6,687,839	\$31,950,458	\$38,638,296				
2020	\$7,022,231	\$34,193,380	\$41,215,610				
2021	\$7,373,342	\$36,580,078	\$43,953,420				
2022	\$7,742,009	\$39,118,735	\$46,860,744				
2023	\$8,129,110	\$41,817,928	\$49,947,038				
2024	\$8,535,565	\$44,695,001	\$53,230,567				
2025	\$8,962,343	\$47,761,079	\$56,723,422				
2026	\$9,410,461	\$51,027,936	\$60,438,397				
2027	\$9,880,984	\$54,508,042	\$64,389,025				
2028	\$10,375,033	\$58,214,588	\$68,589,621				
2029	\$10,893,784	\$62,161,538	\$73,055,322				
2030	\$11,438,474	\$66,363,657	\$77,802,131				
2031	\$12,010,397	\$70,836,568	\$82,846,965				
2032	\$12,610,917	\$75,596,785	\$88,207,702				
2033	\$13,241,463	\$80,661,770	\$93,903,233				
2034	\$13,903,536	\$86,025,778	\$99,929,314				
2035	\$14,598,713	\$91,703,479	\$106,302,192				
2036	\$15,328,649	\$97,710,057	\$113,038,705				
2037	\$16,095,081	\$104,061,211	\$120,156,292				
2038	\$16,899,835	\$110,773,159	\$127,672,994				
2039	\$17,744,827	\$117,862,641	\$135,607,468				
2040	\$18,632,068	\$125,346,918	\$143,978,987				

REQUIRED DISCLOSURES-SUMMARY 2.00% Interest

		<u>Active</u>	Retired	<u>Total</u>
A.	Expected Post-Retirement Benefit Obligation	\$595,784,954	\$299,486,423	\$895,271,377
В.	Actuarial Accrued Liability	\$232,188,128	\$299,486,423	\$531,674,551
C.	Plan Assets			\$0
D.	Unfunded Actuarial Accrued Liability			\$531,674,551
E.	Service Cost (Normal Cost)	\$20,351,759	\$0	\$20,351,759
F.	Amortization of unfunded accrued liability	\$10,696,514	\$13,796,832	\$24,493,346
G.	Annual Required Contribution (ARC)	\$31,048,272	\$13,796,832	\$44,845,104
H.	Unrecognized Net Transition Obligation	\$221,491,614	\$285,689,591	\$507,181,205
I.	Expected Benefit (Premium) Payments	n/a	\$12,968,992	\$12,968,992
J.	Net OPEB Obligation			\$31,876,112

A-B. Exhibit 2.1

C. Since plan is not funded, current assets = 0. D. B - C

E-H. Exhibit 2.1

I. These are the City's share of the annual retiree life and health insurance premiums.

J. G-I

REQUIRED DISCLOSURES-SUMMARY 7.75% Interest

		<u>Active</u>	Retired	<u>Total</u>
A.	Expected Post-Retirement Benefit Obligation	\$117,655,058	\$171,336,316	\$288,991,375
В.	Actuarial Accrued Liability	\$61,644,327	\$171,336,316	\$232,980,643
C.	Plan Assets			\$0
D.	Unfunded Actuarial Accrued Liability			\$232,980,643
E.	Service Cost (Normal Cost)	\$4,311,040	\$0	\$4,311,040
F.	Amortization of unfunded accrued liability	\$5,059,612	\$14,062,855	\$19,122,466
G.	Annual Required Contribution (ARC)	\$9,370,652	\$14,062,855	\$23,433,506
H.	Unrecognized Net Transition Obligation	\$56,584,716	\$157,273,462	\$213,858,177
I.	Expected Benefit (Premium) Payments	n/a	\$12,968,992	\$12,968,992
J.	Net OPEB Obligation			\$10,464,514

A-B. Exhibit 2.2

C. Since plan is not funded, current assets = 0. D. B - C

E-H. Exhibit 2.2

I. These are the City's share of the annual retiree life and health insurance premiums.

J. G-I

REQUIRED DISCLOSURES-DETAIL 2.00% Interest

			Active Employees Retirees			<u>Total</u>		
		General (1)	<u>Uniformed</u> (2)	<u>Total</u> (3)=(1)+(2)	Pre- <u>Medicare</u> (4)	Age 65+ Not on MC (5)	Medicare (6)	$\frac{\text{Total}}{(7)=(3)+(4)+(5)+(6)}$
A.	Number of Members Generating a Liability (Medical)	2,210	289	2,499	475	152	1,939	5,065
B.	Expected Post Retirement Benefit Obligation Medical/Rx/Vision Dental Life Total	\$402,118,084 \$0 \$1,872,206 \$403,990,289	\$190,905,833 \$0 \$888,831 \$191,794,664	\$593,023,917 \$0 \$2,761,037 \$595,784,954	\$141,754,961 \$0 \$659,991 \$142,414,953	\$52,492,425 Incl in PMR \$244,397 \$52,736,823	\$103,851,131 Incl in PMR \$483,516 \$104,334,648	\$891,122,435 \$0 \$4,148,942 \$895,271,377
C.	Actuarial Accrued Liability	\$164,757,594	\$67,430,534	\$232,188,128	\$142,414,953	\$52,736,823	\$104,334,648	\$531,674,551
D.	Service Cost (Normal Cost)	\$14,267,834	\$6,083,924.38	\$20,351,759	\$0	\$0	\$0	\$20,351,759
E.	Amortization Factor	21.71	21.71	21.71	21.71	21.71	21.71	21.71
F.	Amortization of Actuarial Accrued Liability	\$7,590,103	\$3,106,410	\$10,696,514	\$6,560,816	\$2,429,496	\$4,806,520	\$24,493,346
G.	Annual Required Contribution	\$21,857,938	\$9,190,335	\$31,048,272	\$6,560,816	\$2,429,496	\$4,806,520	\$44,845,104
H.	Unamortized Portion of Actuarial Accrued Liability	\$157,167,491	\$64,324,123	\$221,491,614	\$135,854,137	\$50,307,327	\$99,528,127	\$507,181,205

A. Exhibit 9

Exhibit 4. Dental EPBO = \$0 because there is only 1 retiree dental plan and retirees pay the full cost. Life EPBO = ratio of Life premium to Medical premium x Medical EPBO

For retired lives AAL = EPBO. For active lives AAL = EPBO x C from Exhibit 3

For retired lives Service Cost = 0. For active lives Service Cost = EPBO X D from Exhibit 3

Amortization factor = present value at 2.00% interest of a 28-year annuity due D. E.

F. C/E G. D+F

H. C-F

REQUIRED DISCLOSURES-DETAIL 7.75% Interest

		Active Employees				Retirees		
		General (1)	<u>Uniformed</u> (2)	<u>Total</u> (3)=(1)+(2)	Pre- <u>Medicare</u> (4)	Age 65+ Not on MC (5)	Medicare (6)	$\frac{\text{Total}}{(7)=(3)+(4)+(5)+(6)}$
A.	Number of Members Generating a Liability (Medical)	2,210	289	2,499	475	152	1,939	5,065
B.	Expected Post Retirement Benefit Obligation Medical/Rx/Vision Dental Life Total	\$93,421,852 \$0 \$434,959 \$93,856,811	\$23,687,960 \$0 \$110,288 \$23,798,247	\$117,109,811 \$0 \$545,247 \$117,655,058	\$72,554,219 \$0 \$337,802 \$72,892,022	\$32,218,624 Incl in PMR \$150,005 \$32,368,629	\$65,769,452 Incl in PMR \$306,213 \$66,075,666	\$287,652,106 \$0 \$1,339,268 \$288,991,375
C.	Actuarial Accrued Liability	\$49,909,826	\$11,734,501	\$61,644,327	\$72,892,022	\$32,368,629	\$66,075,666	\$232,980,643
D.	Service Cost (Normal Cost)	\$3,557,725	\$753,315	\$4,311,040	\$0	\$0	\$0	\$4,311,040
E.	Amortization Factor	12.18	12.18	12.18	12.18	12.18	12.18	12.18
F.	Amortization of Actuarial Accrued Liability	\$4,096,473	\$963,138	\$5,059,612	\$5,982,794	\$2,656,736	\$5,423,325	\$19,122,466
G.	Annual Required Contribution	\$7,654,198	\$1,716,454	\$9,370,652	\$5,982,794	\$2,656,736	\$5,423,325	\$23,433,506
Н.	Unamortized Portion of Actuarial Accrued Liability	\$45,813,353	\$10,771,363	\$56,584,716	\$66,909,228	\$29,711,893	\$60,652,341	\$213,858,177

A. Exhibit 9

Exhibit 4. Dental EPBO = \$0 because there is only 1 retiree dental plan and retirees pay the full cost. Life EPBO = ratio of Life premium to Medical premium x Medical EPBO

For retired lives AAL = EPBO. For active lives AAL = EPBO x C from Exhibit 3

For retired lives Service Cost = 0. For active lives Service Cost = EPBO X D from Exhibit 3

Amortization factor = present value at 7.75% interest of a 28-year annuity due

D. E.

F. C/E G. D+F

H. C-F

ACTIVE EMPLOYEE ACCRUED BENEFITS 2.00% Interest

		Active Employees		
		General (1)	Uniformed Employees (2)	
A.	Average Projected Service at Retirement = Attribution Period	29.7	31.6	
В.	Weighted Average Service to Date	12.1	11.1	
C.	Weighted Average Percent of Retirement Benefits Accrued to Date	40.8%	35.2%	
D.	Percent of OPEB Accrued in Fiscal Year 2008	3.5%	3.2%	

A. Calculated from the census data

B. Calculated from the census data

C. B/A

D. Calculated from the census data

ACTIVE EMPLOYEE ACCRUED BENEFITS 7.75% Interest

		Active Employees		
		General (1)	Uniformed Employees (2)	
A.	Average Projected Service at Retirement = Attribution Period	29.7	31.6	
В.	Weighted Average Service to Date	15.8	15.6	
C.	Weighted Average Percent of Retirement Benefits Accrued to Date	53.2%	49.3%	
D.	Percent of OPEB Accrued in Fiscal Year 2008	3.8%	3.2%	

A. Calculated from the census data

B. Calculated from the census data

C. B/A

D. Calculated from the census data

EXPECTED POST-RETIREMENT BENEFIT OBLIGATION - MEDICAL/Rx 2.00% interest

		Active Employees			Retirees			
		(1)	(2)	(3)	(4)	(5)	<u>Total</u> (6)	
		<u>General</u>	<u>Uniformed</u>	Pre- <u>Medicare</u>	Age 65+ Not on MC	<u>Medicare</u>		
A.	Number of Contracts	2,210	289	475	152	1,939	5,065	
В.	Annual Subsidy per Contract	n/a	n/a	\$0	\$0	\$0		
C.	PV of Future Subsidies for All Employees	\$398,136,716	\$189,015,676	\$140,351,447	\$51,972,698	\$102,822,902	\$882,299,440	
D.	Percent Expected to Elect Medical at Retirement	100%	100%	100%	100%	100%		
E.	Expenses	0%	0%	0%	0%	0%	0%	
F.	Adjustment to Account for Survivor Benefits	101%	101%	101%	101%	101%	101%	
G.	Expected Post-Retirement Benefit Obligation	\$402,118,084	\$190,905,833	\$141,754,961	\$52,492,425	\$103,851,131	\$891,122,435	
Н	EPBO per Contract	\$181,954	\$660,574	\$298,431	\$345,345	\$53,559	\$175,937	

A. Exhibit 9

B. Exhibit 5

C. Calculated from B and the age and sex of each contractholder.

D. Calculation only considered participants who actually elected medical.

E. Expenses are 0% because the assumed interest rate is net of expenses.

F. Survivors can continue coverage and pay the same 20% as actives. Also, survivors can resume coverage any time even if they decline it initially.

G. C x D x (1+ E) X F

H. G/A

EXPECTED POST-RETIREMENT BENEFIT OBLIGATION - MEDICAL/Rx 7.75% interest

		Active Employees			Retirees		
		(1)	(2)	(3)	(4)	(5)	<u>Total</u> (6)
		<u>General</u>	<u>Uniformed</u>	Pre- <u>Medicare</u>	Age 65+ Not on MC	<u>Medicare</u>	
A.	Number of Contracts	2,210	289	475	152	1,939	5,065
В.	Annual Subsidy per Contract	n/a	n/a	\$0	\$0	\$0	
C.	PV of Future Subsidies for All Employees	\$92,496,883	\$23,453,425	\$71,835,861	\$31,899,627	\$65,118,269	\$284,804,066
D.	Percent Expected to Elect Medical at Retirement	100%	100%	100%	100%	100%	
E.	Expenses	0%	0%	0%	0%	0%	0%
F.	Adjustment to Account for Survivor Benefits	101%	101%	101%	101%	101%	101%
G.	Expected Post-Retirement Benefit Obligation	\$93,421,852	\$23,687,960	\$72,554,219	\$32,218,624	\$65,769,452	\$287,652,106
Н	EPBO per Contract	\$42,272	\$81,965	\$152,746	\$211,965	\$33,919	\$56,792

A. Exhibit 9

B. Exhibit 5

C. Calculated from B and the age and sex of each contractholder.

D. Calculation only considered participants who actually elected medical.

E. Expenses are 0% because the assumed interest rate is net of expenses.

F. Survivors can continue coverage and pay the same 20% as actives.
Also, survivors can resume coverage any time even if they decline it initially.

G. C x D x (1+ E) X F

H. G/A

CURRENT ANNUAL SUBSIDY - MEDICAL/Rx

		Active (1)	Pre-Med. Retirees (2)	Retirees >65 Not on Medicare (3)	Medicare Retirees 65+ (4)
A.	Average Annual Premium per Contract excluding Med Part B	n/a	\$13,438	\$9,900	\$4,254
В.	Actual Annual Cost per Contract excluding Med Part B	n/a	\$19,743	\$25,640	\$4,254
C.	Annual Medicare Part B Premium per Contract paid by the City (80%)	n/a	n/a	\$0	\$925
D.	Blended Annual ASO/Stop Loss Premium paid by the City	n/a	\$0	\$0	\$0
E	Total Actual Annual Cost per Contract	n/a	\$19,743	\$25,640	\$5,179
F	Annual Member Contributions per Contract	n/a	\$2,688	\$1,980	\$851
G	Current Annual Subsidy per Contract	n/a	\$17,055	\$23,660	\$4,329

A. Exhibit 6

B. For PMR, equal to A times an age-sex factor to account for the "implicit subsidy". This factor is
 For retirees > 65 not on Medicare, equal to an age-sex factor to account for no Medicare. This is
 2.59

C. The City reimburse its retirees for 80% of the Medicare Part B premium.

D. Since the City's insurance contracts are fully insured, the stop loss costs are included in the premium rates.

 $[\]mathsf{E.} \quad \mathsf{B} + \mathsf{C} + \mathsf{D}$

F. Exhibit 6

G. E-F

MEMBER CONTRIBUTIONS

	Medical/Rx	Life Insurance
Pre-Medicare Retirees - < 65		
Blended Monthly Premium per Contract	\$1,119.85	\$9.45
Blended Annual Premium per Contract	\$13,438.22	\$113.40
Percent Paid By Members	20.00%	50.00%
Current Annual Amount Members Pay	\$2,687.64	\$56.70
Retirees >65 Not on Medicare		
Blended Monthly Premium per Contract	\$824.96	\$9.45
Blended Annual Premium per Contract	\$9,899.55	\$113.40
Percent Paid By Members	20.00%	50.00%
Current Annual Amount Members Pay	\$1,979.91	\$56.70
Medicare Retirees		
Blended Monthly Premium per Contract	\$354.49	\$9.45
Blended Annual Premium per Contract	\$4,253.86	\$113.40
Percent Paid By Members	20.00%	50.00%
Current Annual Amount Members Pay	\$850.77	\$56.70

Monthly costs calculated from census and premium rates.

Percent paid by members from Exhibit 7

FUNDING INFORMATION

Actives

Medical Employees pay 20% of blended cost of actives and retirees not on Medicare.

Harvard Pilgrim, Tufts EPO and Tufts POS are self-insured. Pooling protection is included in the specified premium rates.

Drugs Included with Medical

Dental Actives pay <100% of the cost of the coverage.

Life Insurance Fully insured.

Current 100% monthly premium rate is \$9.45 per month for \$5,000 of coverage.

Members pay 50% of the total premium - so they pay \$4.72 per month.

Retirees Not on Medicare

Medical Retirees and their spouses pay 20% of blended cost of actives and retirees not on Medicare.

Drugs Same as for Actives

Dental For the only plan available, retirees have to pay 100% of the cost of the coverage.

Life Insurance Retirees pay 50% of the premium.

Retirees on Medicare

Medical Plans designed for these participants are fully insured. When eligible for Medicare,

retiree is transferred to a Medicare Supplement plan. Tufts Medicare Complement plan is self insured.

Tufts Medicare Preferred, First Seniority Freedom, and Medicare HMO Blue are fully insured.

Retirees and their spouses pay 20% of the cost.

Drugs and Vision Since plan is fully insured, stop loss coverage is included in the insurance rates.

Drugs Same as for Actives

Dental For the only plan available, retirees have to pay 100% of the cost of the coverage.

Life Insurance Retirees pay 50% of the premium.

Data provided by the City of Newton

BENEFIT INFORMATION

Actives

Medical Choice of Harvard Pilgrim, Tufts EPO and Tufts POS

Rates depend on choice of coverage

The City only offers Individual and Family plans.

Drugs and Vision Included if Medical Elected (Drug Copays per Medical Plan Elected Apply)

Dental Several plans are available.

Life Insurance All life insurance benefits are a flat \$5,000 with no reduction at retirement.

Retirees Not on Medicare

Medical Same Choices as for Actives

Survivors from family contracts can continue coverage until they die. They may also re-enter the plan after initially declining coverage.

Drugs and Vision Same Choices as for Actives

Dental Only 1 plan is available. It is not subsidized by the City, so the City has no GASB-45 liability for dental benefits.

Life Insurance Flat \$5,000

Retirees on Medicare

Medical Most participants have elected the Tufts Medicare Complement Plan (Medicare Supplement).

A minority have elected Tufts Medicare Preferred, First Seniority Freedom and HMO Blue. The City reimburses 80% of the Medicare Part B premium for retirees and their spouses.

Surviving spouse can continue coverage on the same terms as the deceased retiree, per Massachusetts law.

Survivors from family contracts can continue coverage until they die.

They may also re-enter the plan after initially declining coverage.

Drugs and Vision Same Choices as for Actives

Drug Plan Not Eliminated When Medicare Part D Took Effect

Dental Only 1 plan is available. It is not subsidized by the City, so the City has no GASB-45 liability for dental benefits.

Life Insurance Flat \$5,000

Data provided by the City of Newton

CENSUS INFORMATION

			Elected No	
	<u>General</u> (1)	<u>Uniformed</u> (2)	Coverage (3)	<u>Total</u> (4)
Actives - Medical	0.040	000	00	0.504
Number of Contracts Average Age	2,210 45	289 42	92	2,591 45
Average Service Years	10	15		43
Pre-Medicare Retirees - Medical/Under 65				
Number of Contracts	475	Incl in Gen	Incl Above	475
Average Age	60			
Retirees > 65 Not on Medicare				
Number of Contracts	152	Incl in Gen	Incl Above	152
Average Age	75			
Medicare Retirees - Medical				
Number of Contracts	1,939	Incl in Gen	Incl Above	1,939
Average Age	77			
<u>Life Insurance</u>				
Number of Contracts - Actives	973	Incl in Gen	1,525	2,498
Number of Contracts - Retirees	1,060	Incl in Gen	1,506	2,566
Number Electing Life Insurance - Total	2,033	Incl in Gen	3,031	5,064
Percent of New Retirees Electing Medical				100%
Percent Under-65 Retirees Keeping Medical at A	ge 65			100%
Percent of Retirees Electing Life Insurance				40%

Data provided by the City of Newton

The City has noted that the declination rate for retiree medical insurance is negligible.